MINING, BUSINESS AND STOCKS.

CENTENNIAL PIOCHE IS THROUGH THE FISSURE

ein Encountered Dips Out of Shaft -Good Progress Promises Reaching Shale Beds Shortly.

According to reports received from Plache this morning the Centennial Pioche is doing some excellent work in spite of the fact that the railroad and supplies have to be hauled by wagons. The report say that the share has been pushed to the 450 foot leve and is back in the lime again. Every indication is that the shale, in which the values on that side of Ploche are

The fissure recently out in the shall has been passed through. This fissur is about five feet wide and contains

is about five feet wide and contained some small values. It dipped at an sgle of about 75 degrees and the shaft has now passed through it. On the other side of the fissure the lime has again been encountered.

During the present 200 feet of contract sinking it looks most probable that the shale will be encountered and in this the ore bodies can be found. It is the theory of most of the mining engineers who have visited the Prince Consolidated and the Centennial that the company will get the extension of the Prince ores. The best ore at the Prince make in shale formations and it now looks as though the one hearing shale in the Centennial will be reached within a short time.

TRADING IS LESS LIVELY.

Volume of Business Drops Lower on Local Stock Exchange.

A peculiar condition is presented by the local market today. To all appearances it is governed by the public. Those who wish to get stocks want them lower than market and on the other hand the brokers are being handleapped by the public asking more than market price. In spite of the efforts of Coller Wasson to get traders together this morning, all appeared to stand on their prices. stand on their prices.

The total nu which changed hands this morning was \$1,285, while the amount represented by the transactions was \$6,515.47, or a little better than an average of 20 cents

Colorado, Iron Blossom, New York, Tintle Central and Silver King were off again today. Columbus Consocidated carried its assessment all right in the market. Though no sales were made, the stock received a bid of 55 cents and was offered at 58 cents. Mineral Flat becomes delinquent tomorrow, but today it was stronger than it has been in months. There was little change in Sloux, which becomes ex-dividend after tomorrow.

On the curb market this morning but two sales were registered. They were 1,000 shares of Tecoma Mines at 25 cents and 700 shares of Ely Centennial at 30½ cents.

STOCK QUOTATIONS.

	For	moon.	Afte	rnoon.
Stocks.	Bid	Asked	Bid	Asked
Allee Beck Tun.			2.80	
Beck Tun.	.ii	.12	.11	.12
Big Hill		01	******	.03
Bing. Amal	*****			.15
Bl'k Jack	.09	.10	.0914	.10
Bullock	-01	.01%	.01	.01%
Carisa	,50	.55	. 50	.55
Cedur	.08	*.08%	.07%	.08
Cent. Mam.	*****	*****	.05	.10
Century	F	*****	.05	
Colorado	.82	.84	.80	.82
Columbus	.55	.58	,55	.57
C. Mercur	KEYREYE	.12	.05	.125
Crown Pt	.08	.10	.08	.09%
Daly Judge.	4,00	5,00	4,00	4.15
Dragon 1	****	.12	****	RESERVE
E. C. Point	.01	.0112	.01	,013
E. C. Point. E. T. Con E. T. Dev E. T. G. K.		0136	.01	.01%
E T C E	-03%	.04	.03%	.04
Galena	-0115g	XXXXXXX	.00%	.00%
G. C. Crown		******	-179	1.77(64.0)
Grand Cent.	1.60	1.70	1.60	1.675
Ind Oneen	.02	.0234	.01%	,02%
Int. P. O. D. Inyo Iron Blos.	1.05	1.07%	1.05	1.071
Inyo	*****		MARKET A	.07
Iron Blos	1.00	1.02%	1.00	1.02%
Iron K. Con.	exacts of	9214	12 17 17 17 1	.22%
Joe Bowers	2600.	.0154	.00%	.01%
Corntono	10 TO TAK	.20		20
King Day,		.15	.08	.15
King Wm.	.05	.10	.05	.15
King Dav. King Wm Little Bell	1.50	1.5715	1.50	1.57%
La Marn.	.49	.51	.43	.51
ANERODO V. SEE,	N. 50 1	*****	8.50	9,00
May Day McKinley Mil Hill Min. Flat	.06	.08%	.86	.08%
McKinley .	.01	excession	.01	23 T Y 2 T 4
Miles Fills (+)	27.55	.03	.0214	.03
Mt. Lake	.0246	.031/2	. 02 16	.03
Mossows	.40	,1012	,08	.09%
Moscow N. Fair		.0212		.39
Nev. Hills	.56	.57	.55	.60
Nev. Hills . Newhouse .		2.60	- 1547	2.50
New York	05	.0716	.05	.0734
New York Ohio Cop.	2 45	3.75	3.52%	3.70
Plutus	.05	.08	.05	
Prince Con.	.85	.90	85	.90
Provo	.0134	.03	.01	.03
Sacramento	2,4716		.02	
Silver King	2,4716	2,50	2:45	2,4744
Silver King Seven Tghs.	.07%		.0716	.09
Rich Anac.		:10		.10
Rich Anac.	.42	.43	.42	.4215
S. Col. Con.	06	.0636	-206	.06%
	.01	.01%	.01	,0139
Swan, Con.	.03	.0314	.03	-0315
Swan, Ext.		.0016		.0054
Tin. Cent	.13.	.13%	.1156	.12
l'in. Comb	.00%	01%		.0134
Tin. Emp. Tin. Humb.	.00%	.01		.01
Fin. Humb.				.01
With the second of the second	.39	-40	.39	.46
Uncle Sam		.0016		
Uncle Sam United Mer.	X 10 4 X+			137.4.0
Uncle Sam United Mer.	0.8	.04%	.04	-0415
Uncle Sam United Mer.	0.8	.04%	.6512	.05.5
Uncle Sam United Mer. Utah Con. Vic Con.	.04 .05 1.30	.04%	1.25	.05.%
Uncle Sam United Mer.	.04 .05 1.30	.04%	.6512	.05 s

"If it's for the office Breeden has it PHONES 729

TODAY

Stafford's-

Do you know what Stafford's make? They make some of the best INKS, all colors. some of the best OFFICE PASTE and some of the best MUSCILAGE. You can buy any quantity—little or much —but all the same quality. We keep a

Complete Stock.



MORNING METALS.

SILVER. 53% COPPER (cathodes) - 12 15-16 LEAD. 4.50

NEW YORK QUOTATIONS LEAD, weak, 4.35@4.40 COPPER, weak, 12.50@12.65 SILVER, 53%

LOCAL BANK CLEARINGS. ., \$1.130,329,46 1,412,846,16 Today's April 13, 1909

Yan. Con	.01 .035
Unlisted Stocks.	
Ely Centeonial Utah Mine Opex Bingham Central Stand. McDonald Ely Cintah Treasure Hill.	.20

FORENOON SALES.

Cedar Talls., 1,000 at 84.
Colorado, 200 at 84.
E. Tin, Dev., 1,000 at 334.
Nev. Hilis, 300 at 57.
New York, 1,000 at 5. buyer 60.
Plutus, 1,000 at 54.
Silver King, 200 at 5.5.
Sioux Con., 50 at 43.
So, Col. Con., 200 at 615. Sioux Con., 20 at 6½.

So. Col. Con., 200 at 6½.

Tin. Cent., 500 at 13½; 300 at 14.

Tin. Comb., 1.000 at 1.

Lincle Sam, 200 at 40½; 500 at 40.

Utah Con., 1.000 at 4.

Victor Con., 1.000 at 5½.

Yerington Cop., 600 at 3. OPEN, BOARD.

Cedar Talls., 2,000 at 7%; 135 at 8%;

Crown Point, 500 at 9, East Crown Pt., 2,000 at 1, Iron Bloss., 300 at 1.02½, buyer 60, 200 at 1.00; 100 at 1.00, seller 10; 100 at 1.00,

Nev. Hills, 300 at 57. Silver King, 700 at 2.47½. So. Iron Blos., 11,000 at 1½. Tin. Cent., 2,500 at 13. Uncle Sam, 100 at 40.

34,285 \$6,515.47 AFTERNOON SALES.

Cedar Tal., 2,000 at 7%.
Colorado, 100 at 83; 300 at 82.
May Day, 100 at 7.
Mineral Flat, 1,000 at 2½.
Nevada Hills, 100 at 57.
Sloux Con., 200 at 42½; 1,200 at 42.
South Col. Con., 4,900 at 8.
Tin. Cent., 1,300 at 12½; 5,000 at 2.

Tintle Combination, 1,000 at 1. Uncle Sam, 100 at 39 ½. Utah Con., 6,000 at 4.

CENTRAL REACHING DEPTH.

Provo, April 13.-Manager A. N. Holdaway of the Tintle Central states that the double compartment shaft is now down to 650 feet in material that is considered highly favorable, being simillar to that found in the Iron Blosson ofore the ore was found in the Colo

EAST TINTIC IN RICH ORE.

(Special to The News.) Provo, April 13.—The East Tintic De-Provo, April 15.—The East Tantic De-velopment company has encountered ore on the 430 level richer in lead and silver than any ore so far struck in the property. The vein runs southeast and will reach the large ore body which goes down from the upper levels. It was first found in stringers; but the vein has now increased in size and indicates good shipping quantities. The ore in other parts of the mine con-tinues strong and the regular weekly shipments are being made.

HAVE REACHED BREAK.

vo, April 13.-Manager Giles of the Tintic Humboldt has received some fine samples of ore from the 25-foot level of the shaft. There is every indication that the break has been encountered and that ore is not far distant. Three and that ore is not far distant. Three men are working the new machinery in the shaft and they are greatly encouraged over the change in material in the last few days. The superintendent writes to Mr. Giles that all who have inspected the property consider the showing most encouraging.

PEBBLES FROM DENMARK.

A carload of flint pebbles has been redered from Denmark by the Ric ordered from Denmark by the Rlo Plata Mining company for use in its mines in Chihuahua, Mexico. The pebbles are used for the regrinding of ore for the cyanide process. The reason for sending to Denmark for them is that the bardest flint pebbles in the world, superior to any that have been obtained on the North American continent, are to be found there. Most of the mines in the Arteaga mining district in Mexico use these, the Rio Plata company alone, with an output of company alone, with an output of about a million ounces of silver a year requires a carload every five months

TRON KING CLOSES CONTRACT. Shipping Carload of Ore a Day to Smelter.

Superintendent Nick Roberts of the ron King property states that a con-ract has been made whereby this mine an ship about a carload of iron ore

Mr. Roberts put a force of men at Mr. Roberts put a force of men at work coon the iron ore the first of last week and it is now taking out from 40 to 50 tons of ore daily, the ore being forwarded to the American Smelting & Redniag company's smelter where it is used for fluxing purposes. A little late: it will probably be possible to send out a couple of cars of iron ore daily from the Iron King mine and the shipment of this oreshould be sufficient money into the treasury to pay the operating expenses of the property and make further assessment of the stock unnecessary.

The big tunnel at the Iron King is now at a distance of about 2,500 feet and an additional 500 feet should take it to a point where the high grade ore should be encountered.—Eureka Reporter.

GRAY ROCK ELECTS OFFICERS.

At the annual meeting of the Gray Rock Mining company recently the following list of officers were chosen to serve during the ensuing year: W. E. Evans, president and general manager; C. E. Huish, vice president: Ernest Boynes, secretary and treasurer. Mr. Huish and Mr. Evans are directors in the company and the additional directors are: Perry Fuller, John W. Hurd, George A. Udall, George Childs and John L. Smith.

Before adjourning the directors decided to levy an assessment of one mill per share or \$1.00 per 1,000 shares. The money which this assessment brings into the treasury will be used in the further development of the ground and it is understood that a small force will soon be put to work. The Gray Rock ground is out in the eastern part of the Tintic district and near the holdings of the Montana, or what is now the Missouri company. GRAY ROCK ELECTS OFFICERS.

what is now the Missouri company.

COME TO UTAH WITH TEN THOUSAND DOLLAR CAR

shipment of Fifty-five Tons From Lucky Boy Will Net Company

Small Fortune. Accompanying a carload of high grade ore that will net their company ot less than \$10,000, J. H. Miller, resident and general manager, and J. C. Adams, secretary of the Hawthorne Lucky Boy Mining company and the Goldfield Alamo Mining & Leasing company, which own 260 acres of nining property on the old Bodie road six miles southwest from Hawthorne. Esmeralda county, Nevada, arrived from there this morning and are registered at the Wilson.

"Our greatest depth is 650 feet, and the Lucky Boy mine has produced \$1,200,000 in the last 15 months," said Mr. Miller this morning, "Our main shaft is sunk on a fissure vein between lime and granite, and is one of the prettlest fissures in the state of Nevada, and we have traced and trospected the vein for thousands of feet without a fault. We have followed a vein of ore varying from half a foot to seven feet of solid ore. This vein runs from 100 to 4,500 ounces silver, and from 10 to 60 per cent lead, and we think we have the second richest silver-lead proposition in this country, and our shipments have, proven it. thorne, Esmeralda county, Nevada,

300 ounces in silver alone. The carload of 55 tons we brought with us will run \$10,000 to \$15,000. We have shipped 10,000 tons that averaged \$85,50 to the ton.

"We are now employing a force of 65 men, and the Lucky Boy is averaging us \$30,000 in ore per month. Most of it is being shipped to the U.S. smelter here in Utah. Twice that company has attempted to secure control of the property on account of control of the property on account of the richness and desirable character of the ore.

WILL RUN NEW TUNNEL "We are now arranging to start a 7,000 foot tunnel in the vein at the foot of the grade. This will cost \$10 to \$20 a foot, and will follow the vein, prospecting the two properties and giving us a depth of 1,700 feet, and tapping five ore shoots opened up above. Our intention is to carry this tunnel a mile and a half along the vein, which will-tap the first ore chute at 1,000 feet.

at 1,000, feet, "J. C. McCrystal of the Lucky Boy Leasing company returned this week from an inspection of our property, and was much pleased with it."

NEW EQUIPMENT FOR MILL. Daly Judge Plant to Use Electrical Energy Throughout.

The Daly Judge mill is shortly to be electrified. This will not only facilitate better handling but will also cut down the expense of operation. Relative to the new plant Superintendent Mason says:

"The electrical equipment for the

dent Mason says:

"The electrical equipment for the Daly Judge mill will include 10 motors with an aggregate capacity of 256 horsepower. The motors will consist of four 50, one 20, three 10, one 5, and one 1 horsepower, and each motor a machine or set of machines such as will operate the crusher, rolls, jigs, Huntington mills, elevators, tables, automatic conveyors, etc., as separate units, thus saving considerable power now consumed in shafting and belting, and affording better facilities for cutting out different machines for short periods while the rest of the mill is running.

"Power will be furnished by the Snake Creek Power company, at 8,600 voits, transformed to 460 voits in the mill sub-station, a part of the mill equipment, consisting of three 100 kilowatt, water cooled, oiled insulated transformers, together with lighting arrester, oil switches, etc., which go to make up an up-to-date sub-station. The electrical apparatus is all of the General Electric company design, and is expected to be on the ground in a short time."

SAN FRANCISCO MINING STOCKS James A. Pollock & Co., bankers and brokers, furnish the following, received over their private wire this afternoon:

COMSTOCK.

Ophir, 1.22½@1.25; Mexican, 1.25@1.27½; Gould & Curry, 30@31; Con. Va., 1.10@1.12½; Halo & Norcross, 42 @43; Yellow Jucket, 93@95; Belcher, 90 bid: Confidence, 1.05@1.25; Sierra Nevada, 54 bid; Exchequer, 23 asket, Union, 74@75; Chollar, 21 bid; Potosi, 40 bid.

TONOPAH.

Tonopah Nevada, 7.00 bid; Montana Tonopah, 84 bid; Tonopah Extension, 85 bid; MacNamara, 32:653; Midway, 31 622; Tonopah Belmont, 2.60:62.76; West End Cons., 35:636; Jim Butler,

GOLDFIELD.

GOLDFIELD.

Sandstorm, 4 bid; Col. Mt., 7 asked; Jumbo Ext., 31@35; Hooth, 15@16; Biue Bull, 5@6; Silver Pick, 10@11; Biue Bull, 5@6; Silver Pick, 10 bid; Lone Sfer. 3 bid; Atlanta, 14@15; Gt. Bend, 3@4; Florence, 2.00 bid; D'fleld B. B. Cons., 1@2; Goldfield daisy, 9 asked; Comb. Fraction, 47@48; Kewanos, 6@7; Red Hills, 4@5; Y. Tiger, 6 asked; Gradma, 2 asked; Goldfield Con., 7.62½@7.75; C. O. D., 6 asked; Florence Ext'n., 1 asked. BULLFROG.

Natinal Bank, 1 bid; Bonnie Clare, 8 bid; Montgy Mt., 1 asked; Homestake Cons., 1 bid; Tramp Cons., 5 bid. MANHATTAN.

Manh. Cons., 2 bld; Dexter, 4 bld; S. Dog, 2 asked.

OTHER DISTRICTS. Fairview Sil. King, 19 bid; Nevada Hills, 50 bid; Pittsburg Sil. Peak, 73 bid; Round Mountain, 45 bid; Rawhide Coalition, 36 bid.

NEW YORK COPPER CLOSE.

James A. Pollock & Co., bankers and prokers, furnish the following, received over their private wire this afternoon:

Bingham Central, 15@20; Butte & London, 6½ #7; Cumberland Ely, 8½ %; Giroux Consolidated, 21% #%; Nevada Consolidated, 11-16 %; Nevada Utah, 10@1%; Nipissing, 2@1%; Utah Copper, 2½ @ %; Davis Daly, 2#5; Domition Copper, 1@1%; Ely Central, 9-16@11-16; Ely Consoli-

WILL BUY

 Con Wag
 \$125.00

 0 Utah-Idaho sugar pfd
 \$.70

 Z, C. M. I.
 205.96

 Cement Securities Co.
 57.00

 Des. National
 298.00

 1st Nat. Bank. Ogden
 226.00

 State Bank of Utah
 236.00

 Thatcher Bro. Banking of. 196.00
 Con. Life Ins.
 92.00

Edward L. Burton 47 South Main St. Phones 907.

Announcement

We beg to announce that we have installed the

Duplex Wire Service

of E. F. Hutton & Co., members New York Stock Exchange, etc., giving special attention to Copper Quotations and offering perfect facilities for execution of orders in New York stocks and cotton. Boston coppers and Chicago grain.

Badger Brothers

BROKERS 160 Main Street

Mitchel	4@6; Furnace Creek, 4@6; G. & S. Com., 1-16@14; I, 56@75; Montgomery Sho-
SE 10; 18	%@.%; Nevada Smelting, 10 lilver Queen, 8@9; Silver Leaf, King Edward, 22@25; Mason
Ontario	8%@9; Keystone, 3%@4%; . 10@25; Ely Witch, 53@57;
Cobalt	on, 42@45; Colorado, 82@86; Central, 10½@11½; McKinley- n, 93@95; Tintle Mining, 1@2½;
@314:	Nevada Hills, 4@4: Roston
Taka: W	17@20: North Butte Extension, liami Copper, 24 % @ %; B. S. 20 %; Penna-Wyoming, 1@5;
19% @ 20	0, 2% @3%; Ray Consolidated, ; Inspiration Copper, 7 5-16@
6%物物;	Central, 34@%; Gila Copper, Chino Copper, 13%@%; Iron 1, 1.00@1.10; Ohio Copper, 3%@
%: Balt	tic, 74@916.

BOSTON COPPER CLOSE

BOSTON COPPER CLOSE

A. & M., 30@50; B. Ely, 3\\(\) \(\) \(\) \(

24¼@%; Ray Con., 19½@20; S. & P., NEW YORK LISTED STOCKS.

Stock.	High.	Low.
Utah Copper	47% 30%	4614 30%
NEW YORK CURB	RANG	E
Cobalt Central	13	10%
First National Copper	23%	234
Giroux Consolidated	874	854
Inspiration Copper	736	7 5-16
King Edward	34	3-16
Miami Copper	24%	23%
Nevada Consolidated	215%	20%
Nevada Utah	11-16	1 1-16
Ray Central	284	314
Ray Consolidated	191/4	1934
Gila Copper	65%	6%
Chino Copper	1374	1314
Ohlo Copper	334	354
La Rose	414	434
Keystone	2000	376
Gf Con	784	736

CONCENTRATES.

David Goodsell of Portland has taken 120,000 shares of the treasury stock of the Gold Chief Mining company, which will provide a fund for the erection of a 100-ton cyanide plant. Most of the machinery has been ordered. The property is in the Chief district near Panaca, Nev.

General Manager D. W. Jeffs of the General Manager D. W. Jeffs of the Rye Patch Consolidated returned from the property yesterday and confirmed the report that 40 feet of ore had been cross cut at the face of the drift. Ten feet of this distance he declares the ore will average 168 ounces in silver and 5 per cent lead. The entire 40 feet he believes is commercial ore.

W. H. Harmon, general manager of the Tecoma Consolidated Mines com-pany returned from the camp of Tecoma yesterday. The tunnel he says is in a distance of 600 feet and is now eing driven through low grade ore.

The law suit between the Stall Bros and the National Mining company of the camp of National over rich property in the camp has been settled out of court, after being tied up for several months.

The zinc concentrating plant at the Daly Judge property at Park City has resumed operations after being idle about a week.

R. J. Evans leaves today for Port-land. He expects to be away about 10 days or two weeks. It is understood that native copper has been found in the Eddy tunnel of the Bingham Butte property at Bing-

The tunnel at the Scott Hill Mining property at Park City is now in a distance of 200 feet and following a well mineralized fissure. Foreman Scott asserts that it will not be long before the contact is reached.

Since the first of the month the force of men at the Daly Judge mill have been working nine hours a day in-stead of eight hours.

It is predicted that before many months the Nelson Queen property in the Elkhorn district, which is the eastern end of Park City, will be a shipper. According to Supt. Jinks Nelson, four men are now at work, On account of the water and not being able to install a pump at present a drain tunnel is being driven. This at present is in 200 feet and will tap the ledge of high grade ore that was struck in the shaft at a depth of 300 feet.

With a good treasury it is probable that work on the Utah Old Glory Mining company at Park City will be started up on May 1.

The mill at the Ophir Hill mines tarted up last. Friday and is now ending out concentrates as usual. The following were the Tintic quota- or other organisms.

tions in New York this morning: Colorado 83 at 86; Iron Blossom 1 at 1.07½; Sioux Consolidated, 42 at 44.

Each stockholder of Mason Valley Mines stock of record on April 5, has the right to subscribe for one \$500 bond at par and accrued interest for new house. at par and accrued interest for each \$385 par value of stock held. The right to subscribe expires at the close of business, May 2. Rights for \$500 bonds were offered at \$5 in Wall street this norning.

George W. Lambourne will go to the Daly Judge mine at Park City

NEW YORK STOCK LIST.

Last Sale, April 13.

	The state of the s	4912.7
	American Car & roundry	65
ı	American Cotton Oil	
	American Locomotive	584
1	American Smelting & Refining	843
ı	Am. Smelting & Refining pfd	07
1	American Sugar Refining	233
1	Anaconda Mining Co	453
1	Atchison	140
1	Atlantic Coast Line	30%
1	Baitimore & Onio	124
3	brooklyn Rapid Transit	80%
1	Canadian Pacine	833
1	Chesapeake & Ohio	874
1	Chicago & Northwestern1	59
J	Chicago, Mil. & St. Paul1	438
1	Colorado Fuel & Iron	405
1	Colorado & Southern	607
ł	Delaware & Hudson1	741
l	Denver & Rio Grande	40
ı	Denver & Rio Grande Denver & Rio Grande pfd., bid	7.7
ł	Erie	203
۱	Great Northern pfd	
۱	Great Northern Ore Ctfs	8 1 73 6 5 1 -
l	Illinois Control	10.73
ı	Illinois Central	9-21/
ı	Interiorough Met. pfd	94073 5730
ı	Louisville & Nashvillei	11.74
L	Missouri Pacific	20.72
ŀ	Missouri, Kansas & Texas	0.28
ŀ	National Biscuit, bid	100 7/4
ľ	National Lead	100
١	New York Central	1078
١	Norfolk & Western	14.78
ı	Northern Pacific	15.75
ı	Pacific Mail	100 78
	Pennsylvania	1.00
	People's Gas	
ŀ	Pullman Palace Car	11.17
	Reading16	
H	Rock Island Co	43.5
	Rock Island Co., pfd	21/
	Southern Pacific11	
1	Southern Railway	81.
	Union Pacific	81.
	United States Steel 8	746
	United States Steel pfd	214
	Wabash	
	Wabash pfd 4	
	Western Union	234
	Standard Oil63	8
	Section of the sectio	-

TODAY'S MONEY MARKET.

New York, April 13 .- Money on call steady, 3½; ruling rate and closing bid, 3¼ per cent; offered at 3½ per cent.
Time loans a shade easier; for 60 and for 90 days, 4% per cent; for six months, 4% @½ per cent.
Close: Prime mercantile paper, 4% @5 per cent.

Sterling exchange steady, with actual business in bankers' bills at 4.84.15@.25 for 60-day bills, and at 4.87.76 for demand.

Commercial bills, 4.831/2/04.84. Bar silver, 53%. Mexican dollars, 44 cents. Government bonds steady; railroad onds irregular.

SCIENTIFIC MISCELLANY.

Recent investigations make it fairly certain that man existed in Europe in the latter part of the Pleistocene or glacial epoch. Reviewing these invesglacial epoch. Reviewing these investigations, Prof. W. J. Sollas, of the London Geological society, finds that the work of the comparative anatomists has emphasized the connection mists has emphasized the connection between man and the anthropoid apes, especially the gorilla and the chimpanzee; and a comparison of the blood of man and the apes has shown a close relationship that is not to be found in other animals. Man probably diverged from the primates as the ape of the plains, his development beginning with emancipation from forest life. The erect attitude and the greater use of the hand followed; and as he seems to have been very early a social animal. the hand followed; and as he seems to have been very early a social animal, this gave a stimulus to speech. He probably had great bodily strength and formidable natural weapons of defense and offense. With the invention of weapons made by art, natural weapons became unnecessary, and the teeth were gradually adapted to alimentary functions only. The Helledberg Jaw, the oldest known has a purely human denoldest known, has a purely human den-tition, although otherwise strongly resembling the jaw of apes. The brain has grown in size and complexity with the evolution and use of the hand, but to a far greater extent with the de-velopment of speech and the conse-quent exchange, multiplication and co-ordination of ideas.

Modifying an old experiment of Modifying an old experiment of Paalzov, a German physiologist has shown remarkable amoeba-like movements in a drop of mercury. A bichromate of potash crystal and the drop of mercury are laid a fraction of an inch apart on the level bottom of a glass dish containing dilute nitric acid, and as the yellow ring from the dissolving chystal reaches the mercury, the latter jumps back, then moves to the crystal in a few seconds, and sends the crystal in a few seconds, and sends forth and draws back long tenacles, with lively twitchings curiously like those of a live animal. The strange play continues until the crystal is dissolved.

Tree feling by electricity heated wires has been found impracticable in Germany, on account of clogging and the quick destruction of the red hot stretched wires stretched wire.

Air navigation in Germany has reached the stage where a network of signal lights for night guidance is being considered, with bells or sirens for use in fogs; and Dr. Bidlingmaler of the Imperial observatory at Wilhelmshaven has lately pointed out that his dupley has lately pointed out that his duplex compass will enable the aeronaut to fix his position with some degree of accuracy without dependence on signals below. The instrument, as described by Consul T. H. Norton, is a delicate indicator of the horizontal intensity of the earth's magnetism at any point. It the earth's magnetism at any point. It was used in the late German antarctic expedition, and in observing a star or constellation gives the approximate longitude, while directly it indicates latitude with an accuracy of three to six miles. The knowledge of latitude is usually a sufficient guide. The dipping needle can be relied upon when there is no fron in the immediate neighborhood, and a great advantage of the new apparatus over the ordinary compass is that it is wholly unaffected by the whirling and other disturbing motions so common to balloons in the wind. An observation requires less than two minutes. The duplex compass the earth's magnetism at any point. It than two minutes. The duplex compass could be used at sea, but is mad valueless by the fron on most vessels.

In his novel theory of the canais of Mars and their change of color, Dr. Arrhenius, Swedish physicist and Nobel prize-winner, contends that various conditions, including the thickness of the planet's crust, have caused the formation of parallel cracks, and that these have gradually filled with sand. Various sailts in this sand assume diff. Various salts in this sand assume different colors according to the degree of dampness of the soil at different sea-sons. The "melting snow" at the poles of Mars is regarded simply as an evaporation, and the dampness produced temporarily darkens the cracks. The seas are believed to be shallow, containing much sand. The experiments of Dr. Arrhenius have not favored the idea of life on Mars, and he considers the climate too cold to support plants

MARKET SHOWS LITTLE CHANGE

New York, April 13 .- Opening prices o stocks today showed no very marked changes from last night's closing jevel. The transcontinental railroads were pressed but otherwise changes were in significant and Irregular. North American lost 1½ and Union Pacific, St. Paul, Atchison. Louisville & Nashville and Ten-

esses Copper large fractions. The low prices made by some of the standard stocks encouraged buying and the losses were made up. Rock Island was in brisk demand, rising to 47%. Prices

the losses were made up. Rock Island was in brisk demand, rising to 47%. Prices did not hold well on the rally and some of the active features fell to a lower level than at the start. At 11 o'clock the market was rising again. American Car and Colorado Fuel yielded a point. Iill-nois Central rose 1½.

The rise of 1½ in kock Island and of 2 in Brooklyn Transit was viewed with comparative indifference. The distribution of heavy buying orders in United States Steel awakened a more general response. That stock moved up to near 8. Central Leather, American Smelting, Amalgamated Copper and National Leadrose 1½ to 1¾ and Union Pacific, Southern Pacific, Louisville & Nashville, Great Northern preferred, wabash preferred, Pennsylvania and Consolidated Gas 1.

Bonds were fregular.
An interval of quiet falled to bring out any important realizing and the market was again bid up to a higher level. American Smelting, Sloss-Sheffield rose 2, and Pittsburg Coai preferred 3.

The display of strength in the forenous stimulated buying of stocks which was reflected in a broad and fairly active market. United States Steel advanced to 8½, a rise of over 2 American Steel Foundry rose 3½, Great Northern preferred and Delawars & Hudson 2, Northern Pacific 1½, Union Pacific, Chesapeake & Ohio 1.

The market closed irregularly strong. Prices were pushed up another notch late in the day after the market had rested for a time. Great Northern preferred extended its gain to 3, Union Pacific and Northern Pacific 2½, Central Leather 3%, Reading and Rock Island 2, Norfolk & Western and American Cotton Oil 1½ and Southern Facific 1½.

LIVE STOCK.

CHICAGO.

Chicago, April 13.—Cattle—Receipts estimated at 14,000; market steady. Beeves, 5,50,98.55; Texas steers, 4,500,6.55; western steers, 5,00,6.85; stockers and feeders, 2.56,6.10; calves, 7,00,98.00.
Hogs—Receipts, estimated at 18,000; market 10,915c; lower, Light, 9,50,910.15; mixed, 9,85,910.10; heavy, 2,85,910.15; rough, 3,85,910.10; heavy, 2,85,910.15; pigs, 3,20,910.00; bulk of sales, 9,90,910.05.
Sheep—Market weak. Native, 4,50,9.25; Sheep—Market weak. Native, 4.50@8.25; western, 4.75@8.25; yearlings, 7.25@8.75; lambs, native, 7.75@9.75; western, 8.00@9.75.

KANSAS CITY.

KANSAS CITY.

Kansas City, April 13.—Cattle—Receipts, 4,000; market strong to 10c. higher. Native steers, 6.26@8.30; cows and heifers, 4.00@67.35; stockers and feeders, 4,50@6.75; bulls, 4,00@6.05, 2.76@8.00; western steers, 5.75@8.10; western cows, 4,00@6.25. Hogs—Receipts, 11,000; market 10 to 15c. lower. Bulk of sales, 9,79@9.36; heavy, 5.90@10.05; packers and butchers, 9,75@10.00; light, 9.60@9.85; pigs, 8.50@9.00. Sheep—Receipts, 8,000; market steady. Muttons, 9,75@1.75; lambs, 8,26@9.90; fed western wethers and yearlings, 7,25@9.25; fed western wethers, 6.75@8.30.

OMAHA. Omaha. April 13.—Cattle-Receipts, 3,700 Omaha. April 13.—Cattle—Receipts, 3,700, market steady to strong. Native steers, 6,0006.00; cows and helfers, 3,75@6.50; western steers, 3.50@7.00; cows and helfers, 2,75@5.50; canners, 2,50@4.25; stockers and feeders, 3,75@7.00; calves, 4,25@8.25; bulls, stags, etc., 3,76@5.75. Hogs—Receipts, 11,700; market 10 to 15c. lower. Heavy, 8,75@9.20; mixed, 9,65@9.75; light, 9,50@9.75; pigs, 8,50@9.50; bulk of sales, 9,66@9.75. Sheep—Receipts, 8,100; market 15 to 20c. lower. Yearlings, 7,75 \(\psi \) 8,60; wethers, 7,50 \(\psi \) 8.25; ewes, 7.00 \(\psi \) 8.00; lambs, 9.00 \(\psi \) 10.00. WOOL. ST. LOUIS. .

St. Louis, April 13,—Wool, steady, Territory and western mediums, 22@24; fine mediums, 18@31; fine, 11@14. BOSTON.

Boston, April 12.—Although holders of wool in the local market are still loath to cut values further, there is considerable inquiry among mili representatives, and a number of good sales are reported. Interest is increasing in the new clip, yet western advices indicate that the growers are holding for top prices. Local demand in both combing and clothing wools and staple stocks of Montana, Idaho and Oregon wools are moving well. tana, Idano and Oregon trans, fine, ing well.

Quotations, scoured basis: Texas, fine, low months, 57968; fine, 5 to 8 months, 64969; fine fall, 58959.

California northern, 53968; middle county, 57963; fall free, 5869.0.

Oregon eastern, No. 1 staple, 68690; eastern clothing, 65967; valley No. 1, 58 4457.

40 57. Territory fine staple, 67@68; fine medium staple, 64@68; fine clothing, 66@68; fine medium clothing, 60@68; haif-blood, three-eighths blood, 56@58; quarter-blood combing, 54@56. Pulled extra, 70@71; fine A, 55@68; A supers, 57@60; B supers, 43@55.

PRODUCE.

CHICAGO.

CHICAGO.

Chicago, April 13.—Early trading in the wheat pit today was on a bullish basis due to continued lack of rain in the Kansas wheat fields. July and September opened irregular and added about \(\frac{1}{2} \) to the price before news of light showers and a forecast of heavier rains induced some selling. Opening figures were a shade lower to \(\frac{1}{2} \) higher for July at 1.04\(\frac{1}{2} \) to \(\frac{1}{2} \), while September started \(\frac{1}{2} \) lower to \(\frac{1}{2} \) higher for July at 1.04\(\frac{1}{2} \) to \(\frac{1}{2} \), On the early swell July touched 1.66\(\frac{1}{2} \) and September reached 1.62\(\frac{1}{2} \). In the first hour prices shaded off to the lower levels on a failing off in the demand from shorts. Corn lost the buillshness displayed yesterday and opened easier all around. Influential concerns which purchased heavily during the previous session were sellers today influencing considerable selling by pit traders. Opening figures were from a shade to \(\frac{1}{2} \) lower for May at 58\(\frac{1}{2} \).

Trade in the oats pit was on a firmer.

Trade in the oats pit was on a firmer Trade in the oats pit was on a firmer basis and commission buying crowded the figures up. May was the favorite month and opened unchanged to ½ up at 42% to 43. In the first hour the edge was taken off the market by local selling. Provision prices eased off, the drop being from 2½ to 17½ cents. Profit-taking sales were an important factor together with a decline of from 16 to 15c. in the price of live hogs. Opening prices for the May products were:

Pork. 22.85 to 22.87½; lard. 13.07½; ribs. 12.77½.

Pork. 22.85 to 22.87½; lard, 12.07½; ribs, 12.77½.

Wheat—Later in the session the market—was weaker and sagged to 1.03½.0½ for July and 1.00½ for September, 2c. below the high point. Liberal offerings from longs was the controlling factor. The close was weak with July % off at 1.00½.

Corn—The market fell off in the final half influenced by the weakness in the wheat pit. May sagged to 57½. The closing minutes brought a raily on improved buying which carried the final figures away from the low points. The close was firm, with May % 0½; lower at 38%.

Cash corn: No. 2, 51½.058; No. 2 white, 59½.060½; No. 2, yellow, 57½.083½; No. 2 yellow, 56½.065½; No. 3, 20½.065½; No. 3, 20½.065½; No. 4, 200.065½.

Close—Rye—Cash, 78; May, 79.

Barley—Cash, 45068.

Timothy—Cash, 450; Oct., 4.00.

Clover—Nil.

Wheat—May, 1.105½; July, 1.05½.07½.

Clover—Nil.
Wheat—May, 1.10%; July, 1.03%@%;
Sept. 1.00%
Corn—May, 58%; July, 61%@%; Sept.

BUTTER AND EGGS. Chicago, April 13.-Butter - Steady.

WILL BUY

100 Utah-Idaho Sugar. Pfd. .. \$ 8.70 10 Con. Wag. & Mach. Co. .. 127.50 10 Amal. Sugar Co., Pfd. ... 100.00 John C. Cutler, Jr. INVESTMENT BANKER 239-240 CONSTITUTION BLDQ. Both Phones 588.

Creameries, 26g31; dairies, 22g 28. Eggs Steady, at mark, cases included, 186 20; receipts, 22,962; firsts, 20; prime Cheese, 8tc. 10. Chesse Steady Daisles 1424; Twins, 1324; Young Americas, 1424; Long

SUGAR AND COFFEE New York, April 13 Sugar, raw, steady; muscovado, 89 test, 8.86; centrif-test, 3.61. Refined, steady; crushed, 5.85. Santos, 93, Santos, 9

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